

Form PTO-1449 (modified)

Atty. Docket No.

UVMO:003/HYL

Serial No.

09/237,164 09/273,164

List of Patents and Publications for Applicant's

Applicant

Robert Michael Roberts et al.

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

March 19, 1999

Group:

1643 1641

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1						

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
L/C	B1	99/06038	02/19/99	PCT	A61K	31/19	NO ①

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
L/C	C1	Atkinson <i>et al.</i> , "Characterization of placental-specific binucleate cell glycoproteins possessing a novel carbohydrate," <i>J. Biol. Chem.</i> , 268(35):26679-26685, 1993.
L/C	C2	Birch and Loh, "Homology Cloning of Aspartic Proteases from an Endocrine Cell Line Using the Polymerase Chain Reaction," <i>Biochem. Biophys. Res. Commun.</i> , 177(3):920-926, 1991.
L/C	C3	Cameron and Malmo, "Evaluation of an ultrasonic Doppler probe for pregnancy diagnosis in cattle," <i>Austr. Vet. J.</i> , 70:109-111, 1993.
	C4	Davies, "The structure and function of the aspartic proteinases," <i>Ann. Rev. Bioophys. Chem.</i> , 19:189-215, 1990.
	C5	Green, <i>et al.</i> , "Identification of a New Aspartic Proteinase Expressed by the Outer Chorionic Cell Layer of the Equine Placenta," <i>Bio. Reprod.</i> , 60:1069-1077, 1999.
	C6	Guillomot, "Cellular interactions during implantation in domestic ruminants," <i>J. Reprod. Fertil.</i> , 49(Suppl):39-51, 1995.
	C7	Guruprasad <i>et al.</i> , "Comparative modelling and analysis of amino acid substitutions suggests that the family of pregnancy-associated glycoproteins includes both active and inactive aspartic proteinases," <i>Protein Engin.</i> , 9:849-856, 1996.
	C8	Haig, "Genetic Conflicts in Human Pregnancy," <i>Rev. Biol.</i> , 68:495-532, 1993.
L/C	C9	Inoue, <i>et al.</i> , "Aspergillus Niger Var. Macrosporus Proteinase B. cDNA Cloning, Expression, and Activation of the Proenzyme," <i>Aspartic Proteinases</i> , 581-587, 1995.

EXAMINER: O.P. Cook

DATE CONSIDERED: 12/12/00

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

A: 219267(4P6R01).DOC

① abstract only

Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

UVMO:003/HYL

~~09/237,164~~ 09/273,164

List of Patents and Publications for Applicant's

Applicant

Robert Michael Roberts et al.

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

March 19, 1999

Group:

~~1643~~ 1641

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
L/C	C10	King <i>et al.</i> , "Development of the bovine placentome from days 20 to 29 of gestation," <i>J. Reprod. Fertil.</i> , 59:95-100, 1980.
	C11	Kiracofe <i>et al.</i> , "Pregnancy-Specific Protein B in Serum of Postpartum Beef Cows," <i>J. Anim. Sci.</i> , 71:2199-2205, 1993.
	C12	Li <i>et al.</i> , "Mutational analysis of the vesicular stomatitis virus glycoprotein G for membrane fusion domains," <i>J. Virol.</i> , 67(7):4070-4077, 1993.
	C13	Mialon <i>et al.</i> , "Peripheral concentrations of a 60-kDa pregnancy serum protein during gestation and after calving and in relationship to embryonic mortality in cattle," <i>Reprod. Nutr. Dev.</i> , 33:269-282, 1993.
	C14	Mialon <i>et al.</i> , "Detection of pregnancy by radioimmunoassay of a pregnancy serum protein (PSP60) in cattle," <i>Reprod. Nutr. Dev.</i> , 34:65-72, 1994.
	C15	Patel <i>et al.</i> , "Effect of Fetal Mass, Number and Stage of Gestation on Pregnancy-Specific Protein B Concentrations in the Bovine," <i>Theriogenol.</i> , 44:827-833, 1995.
	C16	Patel, <i>et al.</i> , Plasma bovine pregnancy-associated glycoprotein concentrations throughout gestation in relationship to fetal number in the cow," <i>Eur. J. Endoc.</i> , 137: 423-428, 1997.
	C17	Roberts, <i>et al.</i> , "Glycoproteins of the aspartyl proteinase gene family secreted by the developing placenta," <i>Aspartic Prot., Struct., Funct., Biol., Biom. Impl.</i> , 231-240, 1995.
	C18	Roberts <i>et al.</i> , "Maternal Recognition of Pregnancy," <i>Biol. Reprod.</i> , 54:294-302, 1996.
	C19	Roberts <i>et al.</i> , "New and Atypical Families of Type I Interferons in Mammals: Comparative Functions, Structures, and Evolutionary Relationships," <i>Prog. Nucl. Acid Res. Mol. Biol.</i> , 56:287-326, 1997.
	C20	Sasser <i>et al.</i> , "Detection of pregnancy by radioimmunoassay of a novel pregnancy-specific protein in serum of cows and a profile of serum concentrations during gestation," <i>Biol. Reprod.</i> , 35:936-942, 1986.
	C21	Sasser <i>et al.</i> , "Characteristics of pregnancy-specific protein B in cattle," <i>J. Reprod. Fertil.</i> , 37(Suppl):109-113, 1989.
L/C	C22	Szafranska <i>et al.</i> , "Porcine Pregnancy-Associated Glycoproteins: New Members of the Aspartic Proteinase Gene Family Expressed in Trophectoderm," <i>Biol. Reprod.</i> , 53:21-28, 1995.

EXAMINER:

J. L. COOK

DATE CONSIDERED:

12/12/00

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

Form PTO-1449 (modified)

List of Patents and Publications for Applicant

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)



Atty. Docket No.

UVMO:003/HYL

Serial No.

~~09/237,164~~ 09/273,164

Applicant

Robert Michael Roberts et al.

Filing Date:

March 19, 1999

Group:

~~1643~~ 1641

U.S. Patent Documents

See Page 1

Foreign Patent Documents

See Page 1

Other Art

See Page 1

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
LVC	C23	Szenci, <i>et al.</i> , "Evaluation of false ultrasonographic diagnoses in cows by measuring plasma levels of bovine pregnancy-associated glycoprotein 1," <i>Vet. Record</i> , 304-306.
	C24	Wedemayer, "Structural Insights into the Evolution of an Antibody Combining Site," <i>Science</i> , 276(5319):1665-1669, 1997.
	C25	Wooding, "Current topic: the synepitheliochorial placenta of ruminants: binucleate cell fusions and hormone production," <i>Placenta</i> , 13:101-113, 1992.
	C26	Xie <i>et al.</i> , "Identification of the major pregnancy-specific antigens of cattle and sheep as inactive members of the aspartic proteinase family," <i>Proc. Nat'l Acad. Sci. USA</i> , 88: 10247-10251, 1991.
	C27	Xie <i>et al.</i> , "A novel glycoprotein of the aspartic proteinase gene family expressed in bovine placental trophoblast," <i>Biol. Reprod.</i> , 51:1145-1153, 1994.
	C28	Xie <i>et al.</i> , "The gene encoding bovine pregnancy-associated glycoprotein-1, an inactive member of the aspartic proteinase family," <i>Gene</i> , 159:193-197, 1995.
	C29	Xie <i>et al.</i> , "Trophoblast-specific processing and phosphorylation of pregnancy-associated glycoprotein-1 in day 15 to 25 sheep placenta," <i>Biol. Reprod.</i> , 54: 122-129, 1996.
	C30	Xie, <i>et al.</i> , "The diversity and evolutionary relationships of the pregnancy-associated glycoproteins, an aspartic proteinase subfamily consisting of many trophoblast-expressed genes," <i>Proc. Natl. Acad. Sci.</i> , 94:12809-12816, 1997.
	C31	Xie <i>et al.</i> , "Multiple pregnancy-associated glycoproteins are secreted by day 100 ovine placental tissue," <i>Biol. Reprod.</i> , 57:1384-1393, 1997.
	C32	Zoli <i>et al.</i> , "Purification and characterization of a bovine pregnancy-associated glycoprotein," <i>Biol. Reprod.</i> , 45:1-10, 1991.
	C33	Zoli, <i>et al.</i> , "Radioimmunoassay of a bovine pregnancy-associated glycoprotein in serum: its application for pregnancy diagnosis," <i>Biol. Reprod.</i> , 46:83-92 1992.
LVC	C34	Zoli <i>et al.</i> , "Light and electron microscopic immunolocalization of bovine pregnancy-associated glycoprotein in the bovine placentome," <i>Biol. Reprod.</i> , 46:623-629, 1992.

EXAMINER: *A. R. Cook*

DATE CONSIDERED: 12/12/00

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)